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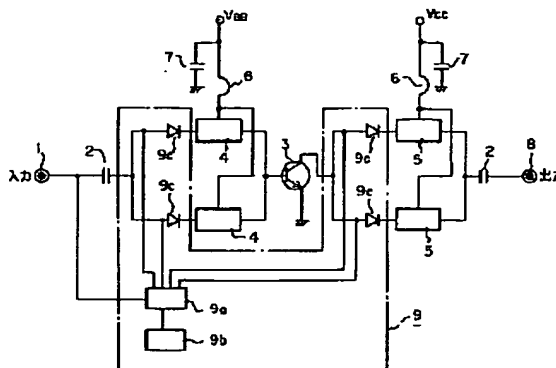
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TITLE : BROAD BAND AMPLIFIER



ABSTRACT : PURPOSE: To attain efficient amplification by comparing a frequency within a stored frequency range with a frequency of a high frequency signal so as to select an input side matching circuit and an output side matching circuit offering the best adaptability to the frequency and connecting the selected circuits to an amplifier element.

CONSTITUTION: The amplifier is provided with a control circuit 9 in which plural input side matching circuits 4 and output side matching circuits 5 store respectively adaptive frequency ranges in advance, a frequency of the frequency range to be stored and a frequency of a high frequency signal are compared, the input side matching circuit 4 and the output side matching circuit 5 offering the best adaptability to the frequency are selected and the selected circuits are connected to an amplifier element 3. That is, the control circuit 9 is operated in a way that the frequency range suitable respectively for the input side matching circuits 4 and the output side matching circuits 5 is stored in advance in a memory (b), a control section 9a at a detector side compares the frequency of the frequency range to be stored with a frequency of a high frequency to select the input side matching circuit 4 and the output side matching circuit 5 offering the best adaptability to the frequency and the selected matching circuits 4, 5 and a transistor (TR) 3 are connected by controlling the resistance of a PIN diode 9c.

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